

Release notes for ENDF/B Development n-036_Kr_084
evaluation

ENDF
B-VII.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT=3643, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT=3643, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      246 TO      304
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=3643, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT=3643, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      246
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 2, MT=151 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=3643, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY      RECORD NUMBER      306
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT= 1 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=3643, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY      RECORD NUMBER      382
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=3643, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY      RECORD NUMBER      411
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT= 4 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=3643, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY      RECORD NUMBER      440
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT= 16 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=3643, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY      RECORD NUMBER      457
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT= 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=3643, MF= 3, MT= 17
SECTION 3/ 17 NOT IN DIRECTORY RECORD NUMBER 468

8. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=3643, MF= 3, MT= 22
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 474

9. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=3643, MF= 3, MT= 28
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 486

10. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT= 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=3643, MF= 3, MT= 51
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 496

11. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT= 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=3643, MF= 3, MT= 52
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 513

12. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT= 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=3643, MF= 3, MT= 53
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 528

13. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT= 54 (0): Directory (b)

ERROR(S) FOUND IN MAT=3643, MF= 3, MT= 54
SECTION 3/ 54 NOT IN DIRECTORY RECORD NUMBER 542

14. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT= 55 (0): Directory (b)

ERROR(S) FOUND IN MAT=3643, MF= 3, MT= 55
SECTION 3/ 55 NOT IN DIRECTORY RECORD NUMBER 556

15. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT= 56 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3643, MF= 3, MT= 56 | RECORD NUMBER | 569 |
| SECTION 3/ 56 NOT IN DIRECTORY | | |
16. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3643, MF= 3, MT= 57 | RECORD NUMBER | 582 |
| SECTION 3/ 57 NOT IN DIRECTORY | | |
17. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3643, MF= 3, MT= 58 | RECORD NUMBER | 595 |
| SECTION 3/ 58 NOT IN DIRECTORY | | |
18. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3643, MF= 3, MT= 59 | RECORD NUMBER | 607 |
| SECTION 3/ 59 NOT IN DIRECTORY | | |
19. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3643, MF= 3, MT= 60 | RECORD NUMBER | 619 |
| SECTION 3/ 60 NOT IN DIRECTORY | | |
20. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3643, MF= 3, MT= 61 | RECORD NUMBER | 630 |
| SECTION 3/ 61 NOT IN DIRECTORY | | |
21. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3643, MF= 3, MT= 62 | RECORD NUMBER | 641 |
| SECTION 3/ 62 NOT IN DIRECTORY | | |
22. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT= 63 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3643, MF= 3, MT= 63 | RECORD NUMBER | 652 |
| SECTION 3/ 63 NOT IN DIRECTORY | | |
23. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT= 64 (0): Directory (b)

- | | |
|---|-------------------|
| ERROR(S) FOUND IN MAT=3643, MF= 3, MT= 64 | |
| SECTION 3/ 64 NOT IN DIRECTORY | RECORD NUMBER 662 |
24. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT= 65 (0): Directory (b)
- | | |
|---|-------------------|
| ERROR(S) FOUND IN MAT=3643, MF= 3, MT= 65 | |
| SECTION 3/ 65 NOT IN DIRECTORY | RECORD NUMBER 672 |
25. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT= 66 (0): Directory (b)
- | | |
|---|-------------------|
| ERROR(S) FOUND IN MAT=3643, MF= 3, MT= 66 | |
| SECTION 3/ 66 NOT IN DIRECTORY | RECORD NUMBER 682 |
26. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT= 91 (0): Directory (b)
- | | |
|---|-------------------|
| ERROR(S) FOUND IN MAT=3643, MF= 3, MT= 91 | |
| SECTION 3/ 91 NOT IN DIRECTORY | RECORD NUMBER 691 |
27. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT=102 (0): Directory (b)
- | | |
|---|-------------------|
| ERROR(S) FOUND IN MAT=3643, MF= 3, MT=102 | |
| SECTION 3/102 NOT IN DIRECTORY | RECORD NUMBER 700 |
28. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT=103 (0): Directory (b)
- | | |
|---|-------------------|
| ERROR(S) FOUND IN MAT=3643, MF= 3, MT=103 | |
| SECTION 3/103 NOT IN DIRECTORY | RECORD NUMBER 722 |
29. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT=104 (0): Directory (b)
- | | |
|---|-------------------|
| ERROR(S) FOUND IN MAT=3643, MF= 3, MT=104 | |
| SECTION 3/104 NOT IN DIRECTORY | RECORD NUMBER 736 |
30. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT=105 (0): Directory (b)
- | | |
|---|-------------------|
| ERROR(S) FOUND IN MAT=3643, MF= 3, MT=105 | |
| SECTION 3/105 NOT IN DIRECTORY | RECORD NUMBER 748 |
31. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 3, MT=107 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3643, MF= 3, MT=107 | RECORD NUMBER | 757 |
| SECTION 3/107 NOT IN DIRECTORY | | |
32. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 4, MT= 2 (0): Directory (b)
- | | | |
|--|---------------|-----|
| ERROR(S) FOUND IN MAT=3643, MF= 4, MT= 2 | RECORD NUMBER | 774 |
| SECTION 4/ 2 NOT IN DIRECTORY | | |
33. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 4, MT= 16 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3643, MF= 4, MT= 16 | RECORD NUMBER | 962 |
| SECTION 4/ 16 NOT IN DIRECTORY | | |
34. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 4, MT= 17 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3643, MF= 4, MT= 17 | RECORD NUMBER | 973 |
| SECTION 4/ 17 NOT IN DIRECTORY | | |
35. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 4, MT= 22 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3643, MF= 4, MT= 22 | RECORD NUMBER | 984 |
| SECTION 4/ 22 NOT IN DIRECTORY | | |
36. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 4, MT= 28 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3643, MF= 4, MT= 28 | RECORD NUMBER | 995 |
| SECTION 4/ 28 NOT IN DIRECTORY | | |
37. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 4, MT= 51 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3643, MF= 4, MT= 51 | RECORD NUMBER | 1006 |
| SECTION 4/ 51 NOT IN DIRECTORY | | |
38. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 4, MT= 52 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3643, MF= 4, MT= 52 | RECORD NUMBER | 1031 |
| SECTION 4/ 52 NOT IN DIRECTORY | | |
39. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 4, MT= 53 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3643, MF= 4, MT= 53 | RECORD NUMBER | 1054 |
| SECTION 4/ 53 NOT IN DIRECTORY | | |
40. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 4, MT= 54 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3643, MF= 4, MT= 54 | RECORD NUMBER | 1077 |
| SECTION 4/ 54 NOT IN DIRECTORY | | |
41. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 4, MT= 55 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3643, MF= 4, MT= 55 | RECORD NUMBER | 1100 |
| SECTION 4/ 55 NOT IN DIRECTORY | | |
42. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 4, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3643, MF= 4, MT= 56 | RECORD NUMBER | 1123 |
| SECTION 4/ 56 NOT IN DIRECTORY | | |
43. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 4, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3643, MF= 4, MT= 57 | RECORD NUMBER | 1146 |
| SECTION 4/ 57 NOT IN DIRECTORY | | |
44. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 4, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3643, MF= 4, MT= 58 | RECORD NUMBER | 1169 |
| SECTION 4/ 58 NOT IN DIRECTORY | | |
45. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 4, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3643, MF= 4, MT= 59 | RECORD NUMBER | 1192 |
| SECTION 4/ 59 NOT IN DIRECTORY | | |
46. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 4, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3643, MF= 4, MT= 60 | RECORD NUMBER | 1215 |
| SECTION 4/ 60 NOT IN DIRECTORY | | |
47. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 4, MT= 61 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3643, MF= 4, MT= 61 | RECORD NUMBER | 1238 |
| SECTION 4/ 61 NOT IN DIRECTORY | | |
48. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 4, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3643, MF= 4, MT= 62 | RECORD NUMBER | 1261 |
| SECTION 4/ 62 NOT IN DIRECTORY | | |
49. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 4, MT= 63 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3643, MF= 4, MT= 63 | RECORD NUMBER | 1284 |
| SECTION 4/ 63 NOT IN DIRECTORY | | |
50. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 4, MT= 64 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3643, MF= 4, MT= 64 | RECORD NUMBER | 1307 |
| SECTION 4/ 64 NOT IN DIRECTORY | | |
51. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 4, MT= 65 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3643, MF= 4, MT= 65 | RECORD NUMBER | 1330 |
| SECTION 4/ 65 NOT IN DIRECTORY | | |
52. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 4, MT= 66 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3643, MF= 4, MT= 66 | RECORD NUMBER | 1353 |
| SECTION 4/ 66 NOT IN DIRECTORY | | |
53. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 4, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3643, MF= 4, MT= 91 | RECORD NUMBER | 1376 |
| SECTION 4/ 91 NOT IN DIRECTORY | | |
54. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 5, MT= 16 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3643, MF= 5, MT= 16 | RECORD NUMBER | 1400 |
| SECTION 5/ 16 NOT IN DIRECTORY | | |
55. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 5, MT= 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=3643, MF= 5, MT= 17
SECTION 5/ 17 NOT IN DIRECTORY RECORD NUMBER 1444

56. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 5, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=3643, MF= 5, MT= 22
SECTION 5/ 22 NOT IN DIRECTORY RECORD NUMBER 1461

57. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 5, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=3643, MF= 5, MT= 28
SECTION 5/ 28 NOT IN DIRECTORY RECORD NUMBER 1584

58. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3643, MF= 5, MT= 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=3643, MF= 5, MT= 91
SECTION 5/ 91 NOT IN DIRECTORY RECORD NUMBER 1653

• **psyche** Warnings:

1. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 84. L = 0 / AT RESONANCE ENERGY 2.42890E+04 EV. THE GAMMA WIDTH 3.30000E-02 DEVIATES TOO MUCH FROM THE AVERAGE 1.55284E-01 (0): Gamma width

FILE 2
SECTION 151
ISOTOPE MASS = 84. L = 0
AT RESONANCE ENERGY 2.42890E+04 EV. THE GAMMA WIDTH 3.30000E-02 DEVIATES TOO MUCH FROM THE AVERAGE 1.55284E-01 (0): Gamma width

2. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 84. L = 0 / AT RESONANCE ENERGY 7.53710E+04 EV. THE GAMMA WIDTH 5.00000E-02 DEVIATES TOO MUCH FROM THE AVERAGE 1.55284E-01 (0): Gamma width

FILE 2
SECTION 151
ISOTOPE MASS = 84. L = 0
AT RESONANCE ENERGY 7.53710E+04 EV. THE GAMMA WIDTH 5.00000E-02 DEVIATES TOO MUCH FROM THE AVERAGE 1.55284E-01 (0): Gamma width

3. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 84. L = 0 / STRENGTH FUNCTION IS 1.34467E-04 / STRENGTH FUNCTION 1.34467E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

FILE 2
SECTION 151
ISOTOPE MASS = 84. L = 0
STRENGTH FUNCTION IS 1.34467E-04
STRENGTH FUNCTION 1.34467E-04
... [1 more lines]

4. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 84. L = 1 / AT RESONANCE ENERGY 6.40490E+04 EV. THE GAMMA WIDTH 2.90000E-02 DEVIATES TOO MUCH FROM THE AVERAGE 2.18141E-01 (0): Gamma width

```
FILE 2
SECTION 151
ISOTOPE MASS = 84. L = 1
AT RESONANCE ENERGY 6.40490E+04 EV. THE GAMMA WIDTH 2.90000E-02 DEVIATES TOO MUCH FROM THE AVERAGE 2.18141E-01 (0): Gamma width
```

- groupie Errors:

1. Very small elastic cross section found
0: Small elastic

```
Multi-Group and Multi-Band Parameters from ENDF/B Data (GROUPIE 2015-2)
-----
ENDF/B Input and Output Data Filenames
ENDFB.IN
ENDFB.OUT
... [97 more lines]
```

- fudge-4.0 Warnings:

1. Missing a channel with a particular angular momenta combination
resonances / resolved / MultiLevel BreitWigner (Error # 0): missingResonanceChannel

```
WARNING: Missing a channel with angular momenta combination L = 0, J = 1.5 and S = 1.5 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 0.5 and S = 1.5 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 1.5 and S = 1.5 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 2.5 and S = 1.5 for "capture"
```

2. Potential scattering hasn't converted, you need more L's!
resonances / resolved (Error # 1): potentialScatteringNotConverged

```
WARNING: Potential scattering hasn't converged by L=1 at E=90000.0 eV, xs[1]/xs[0]=0.243542655803% > 0.1%
```

3. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

```
WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.26%
```

4. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 1: (z,n) (Error # 0): CS Sum.

```
WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.10%
```

- fudge-4.0 Errors:

1. Calculated and tabulated Q values disagree.
reaction label 18: n[multiplicity:'2'] + Kr83 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -10489190.14500427 eV vs -1.05234e7 eV!
```

2. Calculated and tabulated Q values disagree.
reaction label 19: n[multiplicity:'3'] + Kr82 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -17952708.64028931 eV vs -1.79931e7 eV!

3. Calculated and tabulated Q values disagree.
reaction label 20: $n + H1 + Br83$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -10679623.23236084 eV vs -1.07005e7 eV!

4. Calculated and tabulated Q values disagree.
reaction label 21: $Kr85 + gamma$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 7152002.528915405 eV vs 7111390. eV!

5. Calculated and tabulated Q values disagree.
reaction label 22: $n + He4 + Se80$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7064561.978088379 eV vs -7092490. eV!

6. Calculated and tabulated Q values disagree.
reaction label 23: $H1 + Br84_s$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -3817900.192092896 eV vs -3890430. eV!

7. Calculated and tabulated Q values disagree.
reaction label 24: $H2 + Br83_s$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -8455057.13142395 eV vs -8390410. eV!

8. Calculated and tabulated Q values disagree.
reaction label 25: $H3 + Br82_s$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -11781606.64137268 eV vs -1.18084e7 eV!

9. Calculated and tabulated Q values disagree.
reaction label 26: $He4 + Se81_s$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -363661.3850402832 eV vs -386683. eV!

• njoy2012 Warnings:

1. Evaluation has no unresolved resonance parameters given
unresr...calculation of unresolved resonance cross sections (0): No URR

---message from unresr---mat 3643 has no unresolved parameters
copy as is to nout

2. Evaluation has no unresolved resonance parameters given
purr...probabalistic unresolved calculation (0): No URR

---message from purr---mat 3643 has no unresolved parameters
copy as is to nout

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
groupr...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 16
only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (1): GROUPT/conver (0)

---message from conver---cannot do complete particle production for mt= 17
only mf4/mf5 provided

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (2): GROUPT/conver (0)

---message from conver---cannot do complete particle production for mt= 22
only mf4/mf5 provided

6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (3): GROUPT/conver (0)

---message from conver---cannot do complete particle production for mt= 28
only mf4/mf5 provided

7. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (4): GROUPT/conver (0)

---message from conver---cannot do complete particle production for mt= 91
only mf4/mf5 provided